

Figure 1

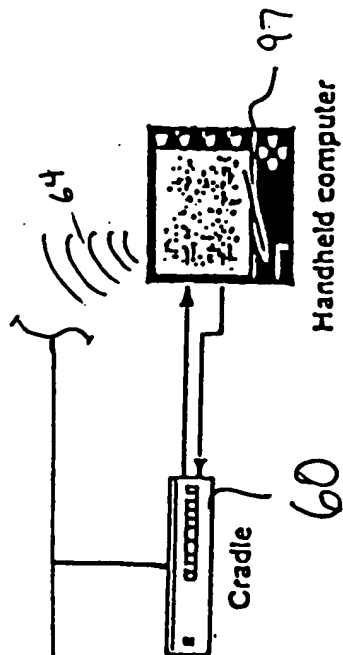
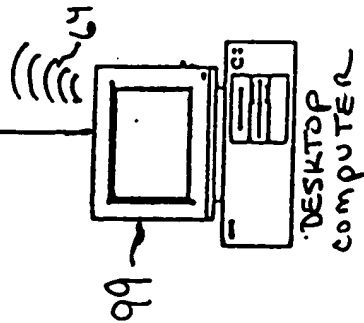
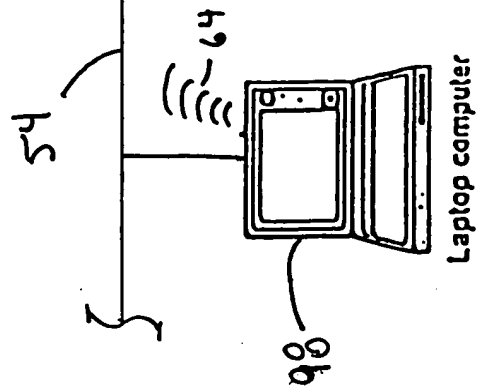
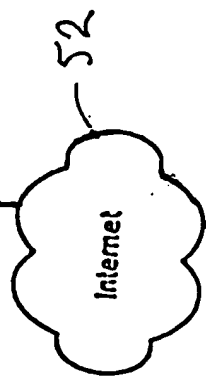
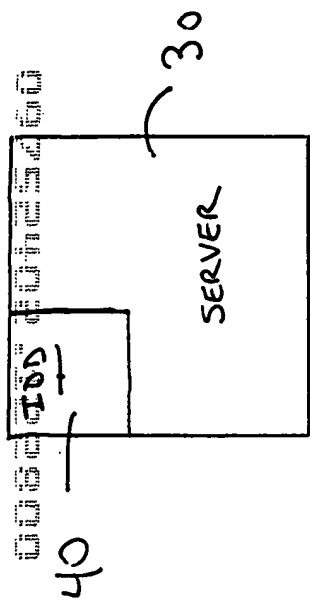


FIGURE 2

100

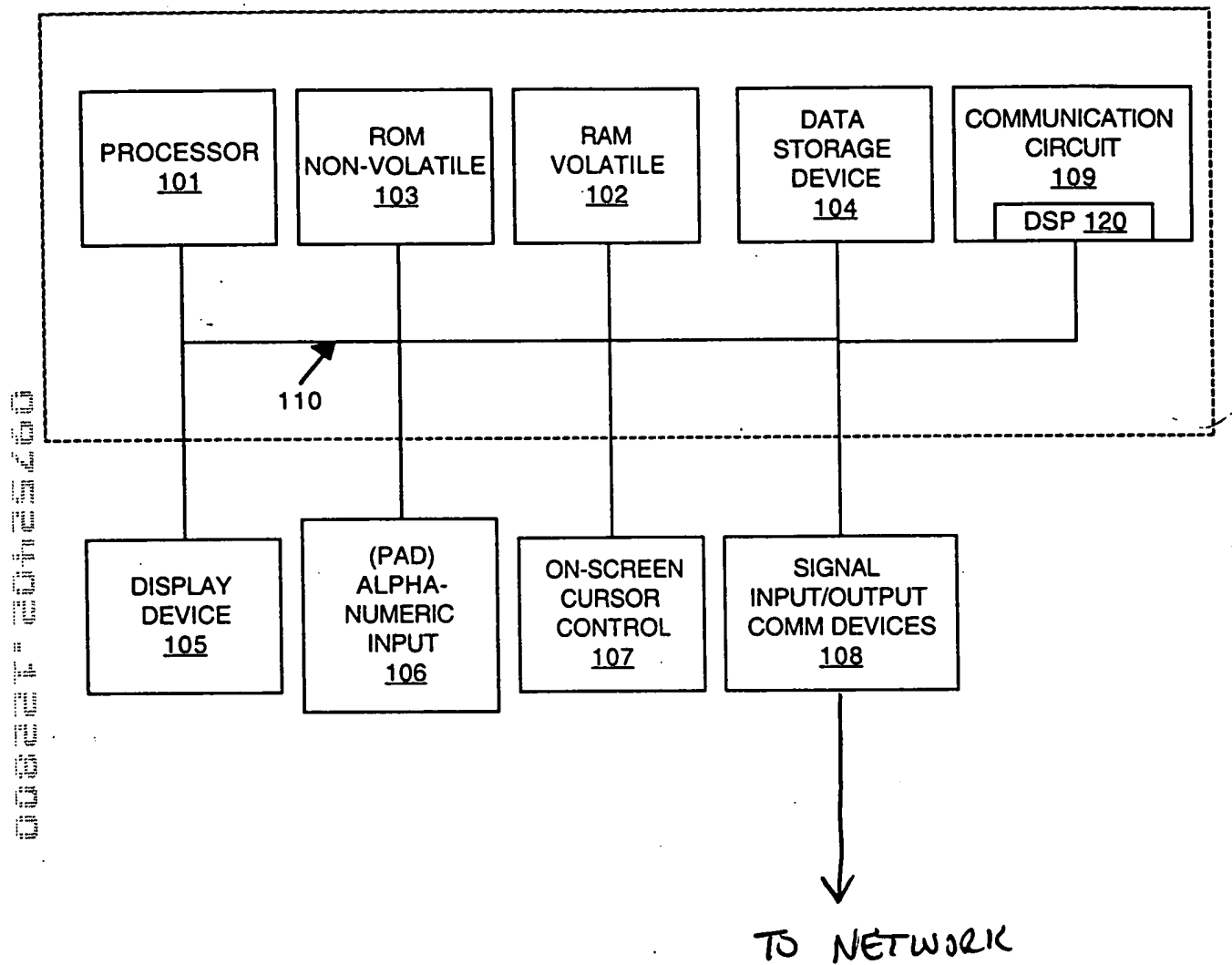


Figure 3

170

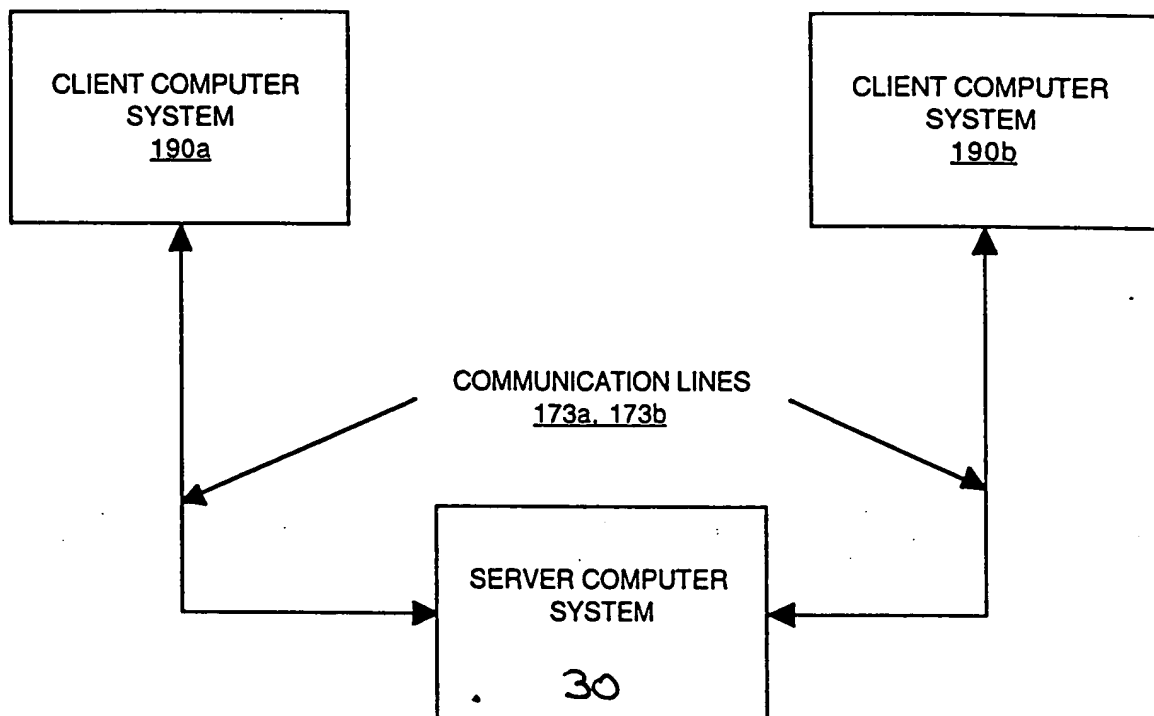
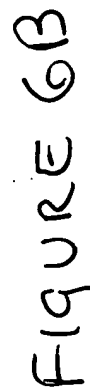


Figure 4







009



206

207

202

Figure 7



Document Donor

FIGURE 8

600

000001-20100200

Solution Troubleshooting Resource - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Guide Print Security Shop Stop

Bookmarks Location file:///C:/JDD/Working file/index.html

CEC || CCO || SEARCH || INDEX || SUPPORT || FEEDBACK || DIRECTORY:

Solutions Delivery and Methodologies

Solution Analysis Criteria

Document Type

Select Document Type

Select your target solution

ThunderDial2.1

Set your search criteria

☐ Use Defaults

☒ Set Criteria

Ready!

General Information

Please Select

Quick Notes

Send Feedback

Please select your current implementation phase (Optional)

☐ Unit Test ☐ Development Test ☐ Early Field Trial ☐ Production

Please select the applicable software version(s) (Optional)

Signal Link Terminal (SLT)	Network Access Server	Signal Controller
Select Target SLT software release	Select Target NAS software release	Select Target SCVSC software release
12.10T		

The values set from this page will affect all subsequent displays. The objective here is to minimize the need to look through alarms, log messages, commands etc. that do not apply to the problem at hand. The components displayed below are based upon the solution you selected.

When applicable, recommendations such as "How to proceed..." will be provided. These recommendations will be affected by the specified Implementation Phase.

The default implementation phase is Production. This is the most restrictive phase, meaning that the "least destructive" recommendations would be provided. The Development Engineers will have the ability to set the "default" software release for their respective products. This will generally be the latest release available.

Document Done

7 211 FIGURE 9



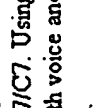


**Solution Troubleshooting Resource - Netscape**

CEC || CCO || SEARCH || INDEX || SUPPORT || FEEDBACK || DIRECTORY: [Go]

**Solutions Delivery and Methodologies**

**Troubleshooting and Analysis Assistant**



**Cisco SC2200 Signaling Controller**

The Cisco SC2200 combined with the AS5X00 gateways give service providers around the world a proven cost-saving and reliable solution for connecting VoIP and dial access solutions to the PSTN via SS7/C7. Using the SC2200 with SS7 signaling allows Service Providers to enter into new markets, optimize their networks for both voice and data traffic, and save drastically on monthly interconnect fees because SS7 trunks cost a fraction of what PRIs cost.

Deployed since 1998, the Cisco SC2200 software runs on industry-standard Sun UNIX platforms. Cisco continues to improve its SC2200 software-call-control engine, bringing manageability, superior scaling, and dramatic savings to end-to-end dial and voice solutions.

These proven Cisco SS7/C7 interconnect solutions enabled by the Cisco SC2200 are: SS7 Interconnect for Access Servers and SS7 Interconnect for Voice Gateways respectively.

**SCVSC Topics**

- ☐ Step-By-Step (coming soon)
- ☒ Checking Alarms
- ☒ Checking Processes
- ☒ Checking Signaling
- ☒ Checking Bearer Channels
- ☒ SCVSC Dat Files
- ☒ Call Traces/Logs

74

1200  
7

000221-20425200

Solution Troubleshooting Resource - Netscape

Forward Back Home Search Help Security Shop

http://www.itdev.cisco.com/tdebug/

CEC || CCO || SEARCH || INDEX || SUPPORT || FEEDBACK || DIRECTORY: [ ] Go

Solutions Delivery and Methodologies

Troubleshooting and Analysis Assistant

SCVSC Troubleshooting Assistant

Step-By-Step (coming soon) [ ]

Checking Alarms

Checking Processes

Checking Signaling

Checking Bearer Channels

SCVSC Dat Files

Call Traces/Logs

sort by Question

sort by Validation

show all

search: [ ] Go

1) Alarm advice

2) Alarms that indicate a significant signaling event

CONF FAIL

VTL  
13-1

VTL  
13-2

1340

1335

1330

1310

1302

1301

Description: Remember that multiple alarms are likely to occur if severe failure scenarios take place. For instance, an LIF LOS would typically also result in SUPPORT FAIL and SC FAIL. By taking stock of ALL alarms triggered, you should be able to pinpoint the general problem area and perhaps the point of failure.

Procedure: N/A

Description: Below is a list of the more common, but significant alarms you might see.

Procedure: Alarm Description

LIF LOS This alarm typically indicates a physical problem, but it may also indicate an error occurring on the remote end.

LIF FAIL This alarm typically indicates a physical problem, but it may also indicate an error occurring on the remote end.

SUPPORT FAIL This alarm also indicates a physical problem. It might indicate the failure of a supporting entity such as Layer 1 framing.

EQPT FAIL This alarm also indicates a physical problem. It might indicate a bad card.

SC FAIL This alarm typically indicates an abstract signaling problem that requires further diagnosis.

FAIL This alarm typically indicates an abstract signaling problem that requires further diagnosis.

CONF FAIL This alarm indicates a serious problem that can result from hand-editing .dat files. It can also indicate a mis-configuration of one or more parameters.

211 FIGURE 13

VTL  
3000

3003  
(RED)

3002  
(YELLOW)

3001  
(GREEN)

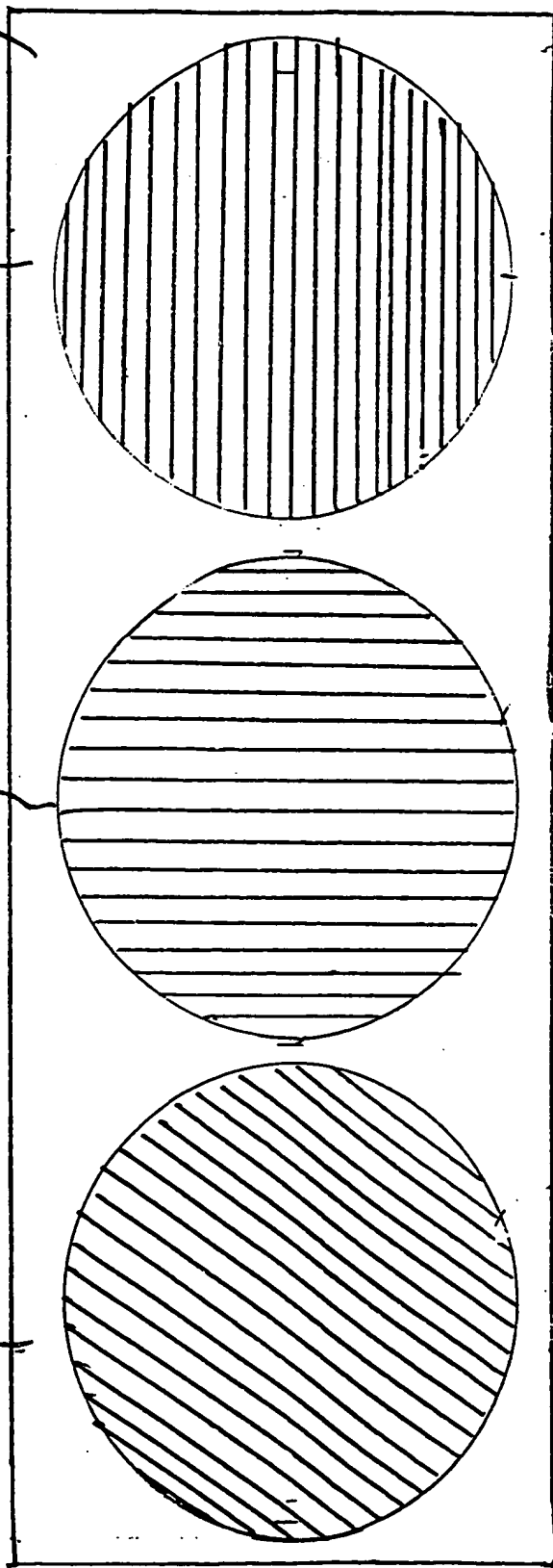


FIGURE 14

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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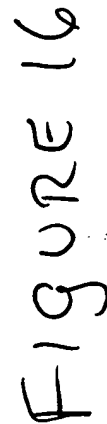


FIGURE 15

211

202





1710

1800

000001-2005260

How Do I: New Content - Netscape

1 Question:

2 Contributor\*:

3 Description:

4 Answer:

\* Only the original contributor (mwnelson) and the administrator may edit this entry once it is submitted. If you are submitting content on behalf of someone else place their user id in this field.

file: /cgi-shell/odd/howDoI/editContent.pl modified: October 18, 2000

Figure 18

How Do I: New Content - Netscape

**Question:** Changing

Contributor: \*mwlnelson  
(a more detailed version of the question - optional)

**Description:**

To change SNMP manager in SC2200 2.0 without using TCT, change current entries in /opt/TransPath/snmp/snmpd.cnf. Changing the entries in

**Answer:**

If using TCT:

- 1) On TCT
  - delete the old SNMP manager and add a new one with the new IP address.
  - build and deploy the config
- 2) On the MASTER stop transpath (we don't want frepld overwriting stuff we've just changed).
- 3) On the SLAVE : use "config-lib retrieve" to get the new config. You

Cancel Reset Submit

\* Only the original contributor (mwlnelson) and the administrator may edit this entry once it is submitted. If you are submitting content on behalf of someone else place their user id in this field.

file: /cgi-shell/odd/howDoI/editContent.pl modified: October 18, 2000

FIGURE 19



\* contributor: xuchen

current validation level: [ 0 ]

(a more detailed version of the question - optional)

**Description:**

**To change SNMP manager in SC2200 2.0 without using TCT, change current entries in /opt/TransPath/snmp/snmpd.cnf. Changing the entries in**

**Answer:**

**If using TCT:**

- 1) On TCT
  - delete the old SNMP manager and add a new one with the new IP address.
  - build and deploy the config
- 2) On the SLAVE : stop transpath (we don't want frepld overwriting stuff we've just changed).
- 3) On the SLAVE : use "config-lib retrieve" to get the new config. You

Cancel

Delete

Reset

**Submit**

<sup>x</sup> Only the original contributor (mwnelson) and the administrator may edit this entry once it is submitted. If you are submitting content on behalf of someone else place their user id in this field.

file: /cgi-shell/odd/howDoIeditContent.pl

modified: October 18, 2000

FIGURE 21

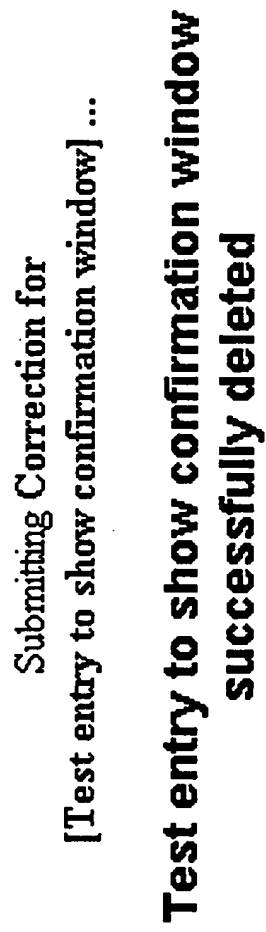
[illegible]

FIGURE 21A





**Disable sync on two VSC's in order to make changes on one box.**

**Description:**

Disable sync on two VSC's (active and backup configurations) in order to make changes on one box. The objective is to allow you to roll back to the working configuration in the event the new configuration has problems and minimize impact to production. This might be used for example, with customers when timers are changed, trunks are added, or additional destinations are added.

**Answer:**

1. Make sure FOVERD (the fail over daemon) is running on the standby VSC using the UNIX command:  
`ps -ef |grep trans`
2. Ensure the current configurations are synced up with each other.
3. Stop the engine on the Active system and ensure the standby VSC has assumed control.
4. Change `""desiredPlatformState"` in `XECfgparm.dat` on both VSC to `"standalone"`
5. Change `""SyscheckpointEnabled"` in `XECfgparm.dat` on active VSC to `"false"`
6. Make the desired change on the active VSC and then switch back to the active VSC, using step 1 and 3 in reverse.
7. If the configurations are correct everything should work as desired.
8. Change `""SyscheckpointEnabled"` in `XECfgparm.dat` on the active VSC to `"true"`

**Current Validation Level: 0**

**Comments:**

new comment goes here

comment id: [auto-generated] contributed by mwnelson

**Cancel**

Reset

Submit

file: /cgi-shell/odd/howDoI/editContent.pl

modified: October 18, 2000

FIGURE 23

2400

howDol/seeComments.pl - Netscape

## Disable sync on two VSC's in order to make changes on one box.

**Description:**

Disable sync on two VSC's (active and backup configurations) in order to make changes on one box. The objective is to allow you to roll back to the working configuration in the event the new configuration has problems and minimize impact to production. This might be used for example, with customers when timers are changed, trunks are added, or additional destinations are added.

**Answer:**

1. Make sure FOVERD (the fail over daemon) is running on the standby VSC using the UNIX command:  
ps -ef | grep trans
2. Ensure the current configurations are synced up with each other.
3. Stop the engine on the Active system and ensure the standby VSC has assumed control.
4. Change ".desiredPlatformState" in XECfgparm.dat on both VSC to "standalone"
5. Change ".SyscheckpointEnabled" in XECfgparm.dat on active VSC to "false"
6. Make the desired change on the active VSC and then switch back to the active VSC, using step 1 and 3 in reverse.
7. If the configurations are correct everything should work as desired.
8. Change ".SyscheckpointEnabled" in XECfgparm.dat on the active VSC to "true"

**Comments:**

1 Can someone please validate this procedure? I have seen other recommendations in the past that differ with this one and I would like to know this information is correct.

submitted 11/09/2000 at 14:50 comment id: 33

2 I have used this procedure and have validated it. The light should now be green!!

submitted 11/09/2000 at 14:52 comment id: 34

[Cancel](#)

modified: September 25, 2000

FIGURE 24

2500

7

**How Do I: Validation - Netscape**

## Configuring for dual IP addresses

**Description:**

**Answer:**

Configure the 2nd Ethernet card in the SUN:

- su to root
- do command "ifconfig hme1 plumb"
- If you need to add another default gateway (in addition to "default router") then go to /etc/rc2.d and at the end of the S69inet file append:  
"route add (metric=1 if on same subnet)"
- cd to the /etc directory
- Create a file called 'hostname.hme1', and in this file put a new hostname for the system (e.g E-452.cisco.com). You must create a separate hostname for the second Ethernet card it cannot use the same hostname as the other one.
- Edit the 'hosts' file adding the new hostname and the IP address you want to allocate to the second Ethernet card.
- Edit the 'netmask' file adding a new line with the new network number of the subnet followed by a space then the netmask to apply to that network.
- Type "init 0" . This goes to "ok" prompt, anyway at the "ok" prompt type: "setenv local-mac-address? true" and reboot by typing 'boot' or 'boot -f'

This should reconfigure the kernel and activate the second Ethernet interface. You should then be able to set it activated by querying it with 'ifconfig -a' (you should see hme1 now with the 2nd IP and Ethernet MAC address.

If using a Netra that has a clock speed of 450Mhz (greater than 419Mhz)  
To find out the speed of the Netra, at the OK> prompt type banner this will tell you the speed at which the Netra is being clocked at. If the speed is greater than 419Mhz a pre-installer MUST be used, that patches the kernel allowing the processor to function at its correct speed. (The Netra will not work without this pre-installer!).

**Current Validation Level: 0**

howdoi id: 25 contributed by mwnelson

2502    2503

2501 what do negative and positive validation mean?

file: /cgi-shell/odd/howDoI/editContent.pl modified: October 18, 2000

Figure 25

2600

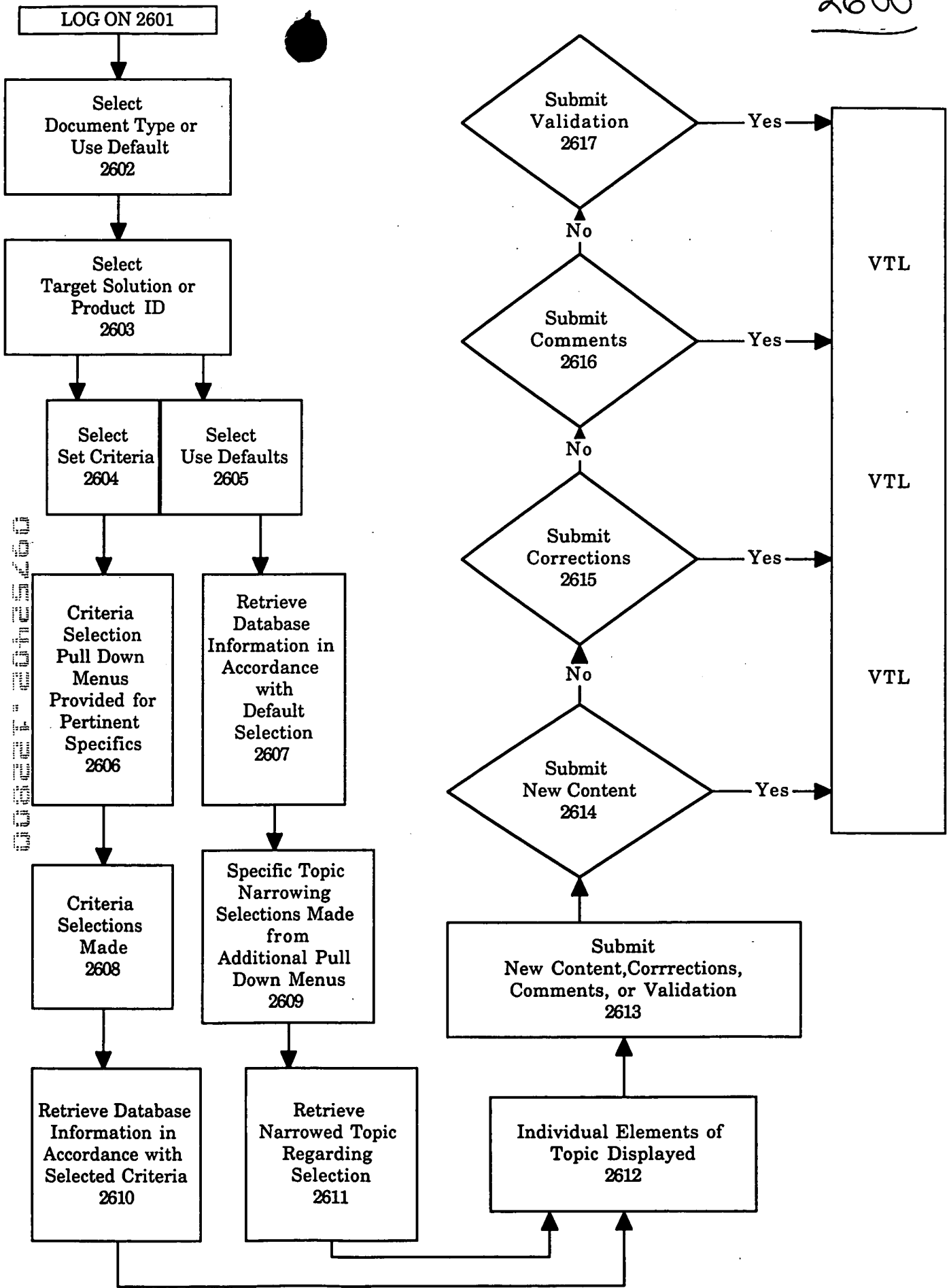


FIGURE 26